AutoCAD Civil 3D 2010

Stand-Alone Installation Guide

April 2009

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Quick Start to Stand-Alone Installation

1

The *Stand-Alone Installation Guide* provides instructions about how to prepare for installing and install AutoCAD Civil 3D 2010. If you have never installed the product before, familiarize yourself with the entire installation process and options before beginning.

For information about installing network-licensed versions of the program, see:

- Choose an Installation Type in the *AutoCAD Civil 3D 2010 Netwok Administrator's Guilde*.
- Select a License Type (optional) in the *AutoCAD Civil 3D 2010 Netwok Administrator's Guilde*.
- What is the difference between a stand-alone license and a network license? on page 38
- What is the benefit of using a network licensed version of the software? on page 39

Preparing for Installation

To prepare for installation, you should review the system requirements, understand administrative permission requirements, locate your AutoCAD Civil 3D serial number and product key, and close all running applications. Complete these tasks, and you are ready to begin installing AutoCAD Civil 3D.

System Requirements

Make sure that your computer meets the minimum system requirements.

Whether your Windows operating system is the 32-bit or the 64-bit version, the version is automatically detected during installation. AutoCAD Civil 3D will run only in a 32-bit mode on all supported operating systems.

See the following table for hardware and software requirements.

32-bit Hardware and Software Requirements		
Operating systems	Microsoft® Windows® XP Professional SP2 or later Microsoft Windows XP Professional 64-bit Edition SP2 or later Microsoft Windows Vista® SP1 or later or Microsoft Windows Vista 64-bit Edition SP1 or later including: ■ Windows Vista Enterprise ■ Windows Vista Business ■ Windows Vista Ultimate ■ Windows Vista Home Premium	For more information on Windows Vista versions see
Browser	Internet Explorer® 7.0 or later	
CPU type	*Windows XP* - Intel® Pentium® 4 or AMD Athlon™ Dual Core, 3.0 GHz or higher with SSE2 technology *Windows Vista* - Intel Pentium 4 or AMD Athlon Dual Core, 3.0 GHz or higher with SSE2 technology	
Memory	*Windows XP* - 3 GB RAM *Windows Vista* - 3 GB RAM	
Display resolution	1280 x 1024 with True Color	
Hard disk	Installation 7 GB and 2 GB free space after installation	
Pointing device	MS-Mouse compliant	
3D Modeling Additional Requirements	1600 x 1200 or higher, 32-bit color video display adapter (True Color) 128 MB or greater, Direct3D®-capable, workstation-class graphics card	

NOTE Adobe Flash Player is not installed by default. If a version of Flash is not currently installed on your system, a message is displayed requesting that you download it from Adobe's website. If you do not have Internet access, you can also access the Flash installer on the AutoCAD Civil 3D disc.

Understanding Administrative Permission Requirements

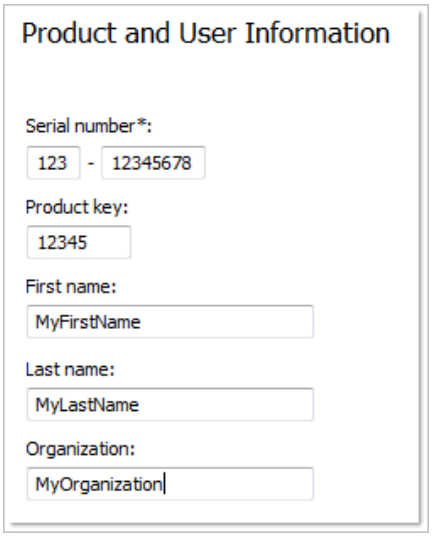
To install AutoCAD Civil 3D, you must have administrator permissions. You do not need to have domain administrative permissions. See your system administrator for information about administrative permissions.

You do not need administrator permissions to run AutoCAD Civil 3D. You can run the program as a limited user.

Locating Your Serial Number and Product Key

When you install AutoCAD Civil 3D, you are prompted for your serial number and product key in the Product and User Information page. The serial number and product key are located on the outside of the product packaging, or in the email you received if you downloaded your product. Make sure to have these available before you install the program so that you don't have to stop in the middle of the installation.

The serial number must contain a three-digit prefix followed by an eight-digit number. The product key consists of five digits.



The information you enter is permanently retained with the product. Because you can't change this information later without uninstalling, take care when entering the information. To review this product information later, on the InfoCenter toolbar, click the drop-down arrow next to the Help button (the question mark). Then click About.

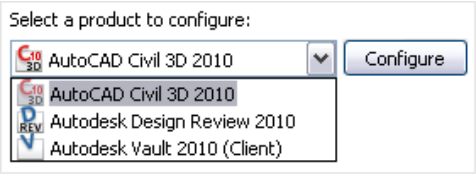
NOTE If you have lost your serial number or product key, contact the Autodesk Business Center (ABC) at 1-800-538-6401 for assistance.

Avoiding Data Loss During Installation

The AutoCAD Civil 3D installation process may stop if some applications (such as Microsoft Outlook® or anti-virus programs) are running. Close all running applications to avoid possible installation problems and data loss.

Configure Button

During the installation process, you choose either a typical installation (install the product with default settings), or a customized installation. If you choose to customize, you start that process in the Review - Configure - Install page. Select a product from the list, and click Configure.

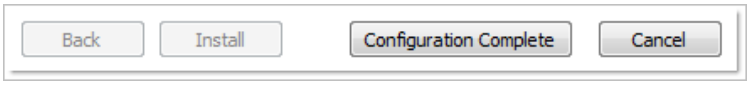


The following dialog boxes and options are displayed:

- **Select the License Type** - *Stand-Alone license* or *Network license*. If you choose Network license, you also need to select the license server model - Single, Distributed, or Redundant.
- **Select the Installation Type** - *Typical* or *Custom*. If you choose a Typical installation (default settings), the product installs the most common application features. To see which features are included in a Typical installation, see When performing a Typical installation, what gets installed? on page 32 If you choose Custom, you select specific features to install.
- **Include a Service Pack** - If a service pack is available for your installation, you can include it.

After you completed your choices, click Configuration Complete, review your selections in the Review - Configure - Create page, and complete the installation process.

NOTE To get a copy of your settings, click Copy to Clipboard.



If you do not wish to make configuration changes on the Review - Configure - Install page, click Install. Then click Yes, to continue installing using the typical configuration.

Installing Multiple or Bundled Products

Some Autodesk packages are comprised of multiple products or are part of *multi-product bundles*.

In the Installation wizard, for packages containing multiple products, you can choose which products you want to install. During the install process, you are informed whether a copy of the software is already installed. You are also

warned if your system does not meet the minimum system requirements for the product. Each product name is displayed on its own tabbed panel; you can configure them individually.

If you purchased a package that is a multi-product bundle, such as an educational or institutional package, you may have a package that includes several Autodesk products. For these bundled packages, an Installer disc contains information for all the products in the package. The Installer disc helps you install all of the products.

Installing and Running the Product

To use the product, you must install the product, register and activate it, and then launch it. You must have administrative permissions to install AutoCAD Civil 3D.

This section provides instructions for installing and activating AutoCAD Civil 3D for an individual user on a stand-alone computer. For information about installing network-licensed or multi-seat stand-alone versions of the program, see the *Network Administrator's Guide*.

Installing AutoCAD Civil 3D

The AutoCAD Civil 3D installation wizard contains all installation-related material in one place. From the installation wizard, you can access user documentation, select a language-specific product, install supplemental tools, and add online support services.

- **Review installation documentation before you install.** It is recommended that you take the time to familiarize yourself with the complete installation process before you install AutoCAD Civil 3D. You can access PDF versions of the installation and licensing manuals from the product's Installation wizard by selecting the Read this Documentation selection, the Documentation link at the bottom, left pane of the install pages, or through the Help system.
  You can also access PDFs from the product discs by navigating to the documentation (*docs*) folder. For late-breaking information, it is also recommended that you review the product *Readme*.

  NOTE To view or print any files with an extension of *.pdf*, Adobe® Reader® must be installed on your computer. If you do not have Adobe Reader, you can download the latest version at *www.adobe.com*.

To install AutoCAD Civil 3D using default values on a stand-alone computer

This is the fastest means of installing AutoCAD Civil 3D on your system. Only default values are used which means it is a typical installation being installed to *C:\Program Files\<AutoCAD Civil 3D>*.

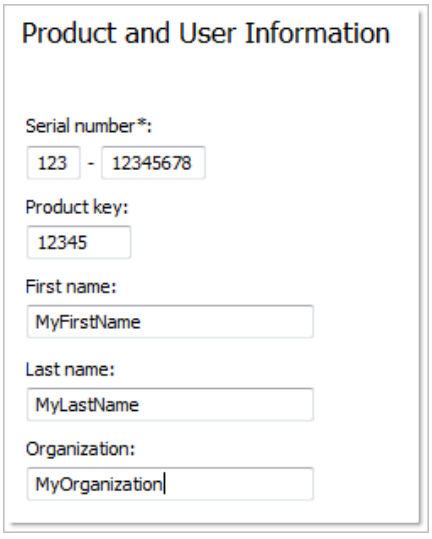
1. Insert AutoCAD Civil 3D 2010 disc 1 into DVD-ROM drive.
2. In the AutoCAD Civil 3D Installation wizard, click Install Products.
3. Select the products you want to install. Click Next.

   NOTE Autodesk Design Review 2010 is installed by default when you install AutoCAD Civil 3D. It is recommended that you install Design Review if you need to view DWF or DWFx files. For more information about Design Review, see Installing Design Review.

4. Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Select your country or region, click I Accept, and then click Next.

   NOTE If you do not agree to the terms of the license and want to terminate the installation, click Cancel.

5. On the Products and User Information page, enter your serial number, product key, and user information. Review the *Privacy Policy* from the link at the bottom of the dialog box. After reviewing, click Next.



NOTE The information you enter here is permanent and is displayed in the Help menu on your computer. Because you can't change this information later without uninstalling the product, make sure you enter the correct information.

6 If you do not want to make configuration changes on the Review - Configure - Install page, select Install. Then select Yes to continue installing using the default configuration.

The wizard does the following:

- Uses a Typical installation, which installs the most common application features. To see which features are included in a Typical installation, refer to When performing a Typical installation, what gets installed? on page 32
- Includes the Express Tools library. The library provides additional productivity tools.
- Installs AutoCAD Civil 3D to the default install path of *C:\Program Files\<AutoCAD Civil 3D>*.

7 Click Install.

8 On the Installation Complete page, you can choose the following:

View the installation log file: If you want to view the installation log file, its location is displayed.

View the AutoCAD Civil 3D Readme: The *Readme* file is opened from this page when you click Finish. This file contains information that was unavailable when the AutoCAD Civil 3D documentation was prepared. If you do not want to view the *Readme* file now, clear the check box next to Readme.

NOTE You can also view the *Readme* file after you have installed AutoCAD Civil 3D.

To install AutoCAD Civil 3D using configured values on a stand-alone computer

With this installation method, you can fine-tune exactly what gets installed by using the Configure option. You can alter the installation type, the install path, and the license type. You can also install Material libraries and Tutorial files.

1 Insert AutoCAD Civil 3D 2010 disc 1 into DVD-ROM drive.

2 In the AutoCAD Civil 3D Installation wizard, click Install Products.

3 Select the products you want to install. Click Next.

NOTE Autodesk Design Review 2010 is installed by default when you install AutoCAD Civil 3D. It is recommended that you install Design Review if you need to view DWF or DWFx files. For more information about Design Review, see Installing Design Review on page 18.

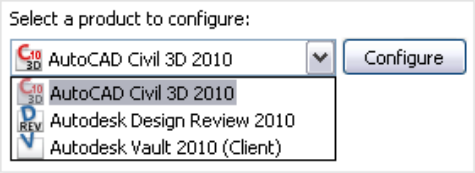
4 Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Choose your country or region, click I Accept, and then click Next.

NOTE If you do not agree to the terms of the license and want to terminate the installation, click Cancel.

5 On the Products and User Information page, enter your serial number, product key, and user information. Review the *Privacy Policy* from the link at the bottom of the dialog box. After reviewing, click Next.

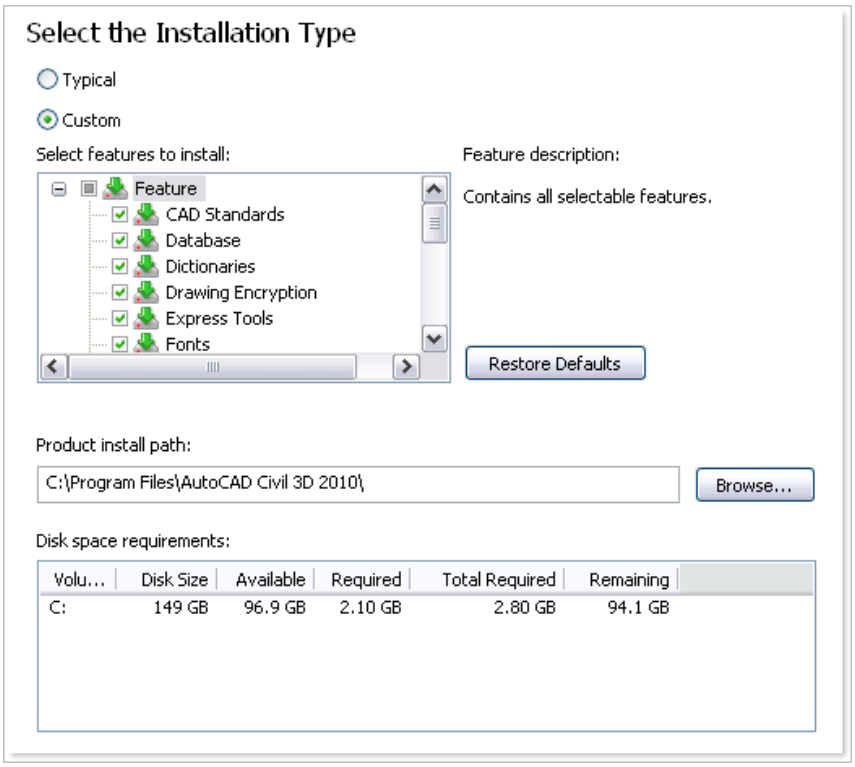
NOTE The information you enter here is permanent and is displayed in the Help menu on your computer. Because you can't change this information later without uninstalling the product, make sure you enter the correct information.

6 On the Review - Configure - Install page, click Configure to make configuration changes such as installation type, installing optional tools, or changing the installation path.



7 On the Select the License Type page, you can choose to install a Stand-alone or Network license. Click Next.

8 On the Select the Installation Type page, you can choose to make the following configuration changes:



- Typical - Installs the most common application features.
- Custom - Installs only the application features that you select from the Select Features to Install list

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language dictionaries.
Drawing Encryption	Allows you to use the Security Options dialog box to protect a drawing with a password.
Express Tools	Contains AutoCAD Civil 3D support tools and utilities (not supported by Autodesk).

Fonts	Contains AutoCAD Civil 3D fonts and TrueType fonts.
Autodesk Impression Toolbar	The Impression toolbar allows you to quickly export any view to Autodesk Impression for advanced line effects.
Autodesk Seek	Autodesk Seek. **NOTE** Seek will only be installed in the English version of AutoCAD Civil 3D.
Material Library	The Material Library contains over 300 professionally built materials to apply to your model.
New Features Workshop	Contains animated demos, exercises, and sample files to help users learn the new features.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. **NOTE** The utility will not be installed on unlocked versions of AutoCAD Civil 3D.
Initial Setup	Allows users to set up their initial configuration of AutoCAD Civil 3D (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Tutorials	Contains tutorials.
Hydraflow Extensions	Installs the Hydraflow Extensions that comprise hydraulics and hydrology applications, including Hydraflow Storm Sewers, Hydraflow Hydrographs, and Hydraflow Express.

Survey Data Collection Link Extension	Installs the Survey Data Collection Link Extension that allows to transfer data from survey data collectors and convert raw data files and coordinate data files into field book (.fbk) format.

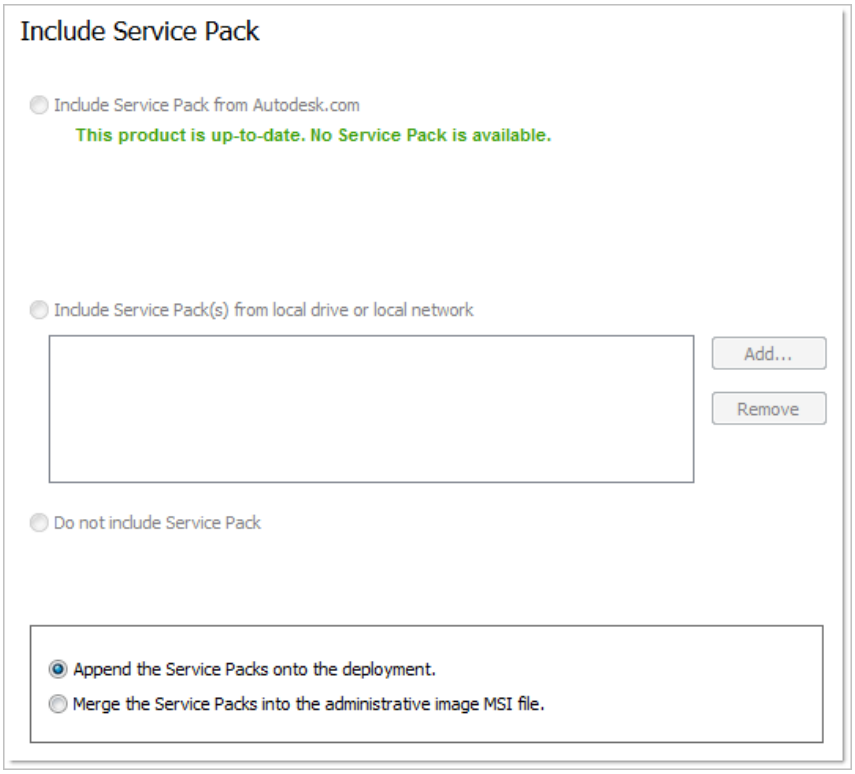
- Product Install Path - Specifies the drive and location where AutoCAD Civil 3D will be installed.

9 On the Configure Content Packs page, select at least one content pack and specify whether to create a desktop shortcut for it. See What are Content Packs? on page 33

10 Optionally, on the Configurable Folders page, modify the default location of the content folders. See What are Configurable Folders? on page 36

11 On the Include Service Packs page, if service packs are available for your product, you can select to include them.

The installer automatically checks *autodesk.com* for available updates. If updates are available, a link is displayed.


Include Service Pack
Include Service Pack from Autodesk.com
This product is up-to-date. No Service Pack is available.
Include Service Pack(s) from local drive or local network
Add...
Remove
Do not include Service Pack
Append the Service Packs onto the deployment.
Merge the Service Packs into the administrative image MSI file.

12 Click another product tab to configure another product, or click Next and then Configuration Complete to return to the Review - Configure - Install page. Then, click Install.

NOTE If you want a copy of your configuration summary information, click the Copy to Clipboard button.

13 On the Installation Complete page, you can choose the following:

View the installation log file If you want to view the installation log file, its location is displayed.

View the AutoCAD Civil 3D Readme The *Readme* file is opened from this page when you click Finish. This file contains information that was unavailable when the AutoCAD Civil 3D documentation was prepared. If you do not want to view the *Readme* file now, clear the check box next to Readme.

NOTE You can also view the *Readme* file after you have installed AutoCAD Civil 3D.

14 Click Finish.

You have successfully installed AutoCAD Civil 3D. You are now ready to register your product and start using the program. To register the product, start AutoCAD Civil 3D and follow the on-screen instructions.

NOTE Autodesk does not recommend or support the distribution of AutoCAD Civil 3D using imaging software. However, if you plan to use this method of distribution, please review the instructions detailed in the *Network Administrator's Guide*.

Register and Activate AutoCAD Civil 3D

The first time you start AutoCAD Civil 3D, the Product Activation wizard is displayed. You can either activate AutoCAD Civil 3D at that time or run AutoCAD Civil 3D and activate it later. Until you register and enter a valid activation code for AutoCAD Civil 3D, you are operating the program in *trial mode* and the Product Activation wizard is displayed for 30 days from the first time that you run the program.

If after 30 days of running AutoCAD Civil 3D in trial mode you have not registered and provided a valid activation code, your only option is to register

and activate AutoCAD Civil 3D. You will not be able to run in trial mode after the 30 days expires. Once you register and activate AutoCAD Civil 3D, the Product Activation wizard is no longer displayed.

The fastest and most reliable way to register and activate your product is by using the Internet. Simply enter your registration information and send it to Autodesk over the Internet. Once you submit your information, registration and activation occur quickly.

To register and activate AutoCAD Civil 3D

1. Do one of the following:
   - (Windows XP) Click Start menu ➤ Programs ➤ Autodesk ➤ *<AutoCAD Civil 3D>* ➤ *<AutoCAD Civil 3D>*.
   - (Windows Vista) Click Start menu ➤ All Programs ➤ Autodesk ➤ *<AutoCAD Civil 3D>* ➤ *<AutoCAD Civil 3D>*.
2. In the AutoCAD Civil 3D Product Activation wizard, select Activate the Product, and then click Next.

   This starts the Register Today process.
3. Click Register and Activate (Get an Activation Code).
4. Click Next and follow the on-screen instructions.

   If you do not have Internet access, or if you want to use another method of registration, you can register and activate AutoCAD Civil 3D in one of the following ways:

   Email Create an email message with your registration information and send it to Autodesk.

   Fax or Post/Mail Enter your registration information, and fax or mail the information to Autodesk.

Launch AutoCAD Civil 3D

Assuming that you followed all of the previous steps outlined in this installation section, you can launch AutoCAD Civil 3D and start taking advantage of its new and updated features. For more information about the new features, see the *New Features Workshop* after you launch the product.

You can start AutoCAD Civil 3D in the following ways:

- **Desktop shortcut icon.** When you install AutoCAD Civil 3D, an AutoCAD Civil 3D shortcut icon is placed on your desktop unless you cleared that option during installation. Double-click the AutoCAD Civil 3D icon to start the program.
- **Start menu.** On the Start menu (Windows XP), click Programs or (Windows Vista) All Programs ➤ Autodesk ➤ *<AutoCAD Civil 3D>* ➤ *<AutoCAD Civil 3D>*.
- **Location where the AutoCAD Civil 3D is installed.** If you have administrative permissions, you can run AutoCAD Civil 3D in the location where you installed it. If you are a limited-rights user, you must run AutoCAD Civil 3D from the Start menu or from the desktop shortcut icon. If you want to create a custom shortcut, make sure that the Start In directory for the shortcut points to a directory where you have write permissions.

Add or Remove Features

You can add or remove AutoCAD Civil 3D features at any time. For example, you may have chosen a Custom installation option when you first installed AutoCAD Civil 3D, but now you want to add features that you did not install originally. Or you may no longer need to use all of the features that were installed originally. You can add or remove features by using the Add or Remove Programs dialog box.

To add or remove features

1. Do one of the following:
   - (Windows XP) Click Start menu ➤ Settings ➤ Control Panel ➤ Add or Remove Programs.
   - (Windows Vista) Click Start menu ➤ Control Panel ➤ Programs and Features ➤ Uninstall or Change a Program.
2. In the Add or Remove Programs dialog box, click AutoCAD Civil 3D, and then click Change/Remove.

   The AutoCAD Civil 3D Installation wizard re-opens in Maintenance Mode.
3. Click Add or Remove Features.

4 On the Add/Remove Features page, select a feature to install or uninstall. The icons to the left of the selections give you an indication of the action that will be taken.

Indicates a feature that was marked for installation will be in a typical installation.

Indicates a feature that is not currently scheduled for installation.

Indicates a feature that was not originally marked for installation, but was added to the installed feature list.

Indicates an installed feature that is chosen for removal.

NOTE If you need to revert to AutoCAD Civil 3D features that you selected in your original installation, click Cancel.

Click Next.

5 On the Configure Content Packs page, select the content packs to uninstall. Click Next.

6 On the Update AutoCAD Civil 3D Installation page, click Next.

7 On the Update Complete page, you are informed when the updates have been performed. Click Finish.

Reinstall or Repair AutoCAD Civil 3D

If you accidentally delete or alter files that are required by AutoCAD Civil 3D, AutoCAD Civil 3D might not perform correctly, and you might receive error messages when you try to execute a command or find a file. You can attempt to fix this problem by reinstalling or repairing AutoCAD Civil 3D. The reinstallation or repair uses the features that were part of the installation type you chose when you initially installed the program.

To reinstall or repair AutoCAD Civil 3D

1 Do one of the following:

- (Windows XP) Click Start menu ➤ Settings ➤ Control Panel ➤ Add or Remove Programs.
- (Windows Vista) Click Start menu ➤ Control Panel ➤ Programs and Features ➤ Uninstall or Change a Program.

2 Then, do one of the following:

- (Windows XP) In the Add or Remove Programs window, select AutoCAD Civil 3D, then click Change/Remove.
- (Windows Vista) In the Uninstall or Change a Program window, select AutoCAD Civil 3D, then click Uninstall/Change.

The AutoCAD Civil 3D Installation wizard re-opens in Maintenance mode.

3 Select Repair or Reinstall. On the Select Repair or Reinstall page, select one of the following options, and then click Next to start the process.

- **Repair My <AutoCAD Civil 3D> Installation.** This option replaces all registry entries that AutoCAD Civil 3D initially installed and restores AutoCAD Civil 3D to its default state. If you are missing AutoCAD Civil 3D files, use this option.
- **Reinstall My <AutoCAD Civil 3D> Installation.** This option repairs the registry and reinstalls all files from the original installation. Use this option if the Repair My <AutoCAD Civil 3D> Installation option does not solve the problem.

4 On the Repair Complete page, click Finish.

Uninstall AutoCAD Civil 3D

When you uninstall AutoCAD Civil 3D, all components are removed. This means that even if you've previously added or removed components, or if you've reinstalled or repaired AutoCAD Civil 3D, the uninstall removes all AutoCAD Civil 3D installation files from your system.

To uninstall AutoCAD Civil 3D

1 Do one of the following:

- (Windows XP) Click Start menu ➤ Settings ➤ Control Panel ➤ Add or Remove Programs.
- (Windows Vista) Click Start menu ➤ Control Panel ➤ Programs and Features ➤ Uninstall or Change a Program.

2 Then, do one of the following:

- (Windows XP) In the Add or Remove Programs window, select AutoCAD Civil 3D, then click Change/Remove.

- (Windows Vista) In the Uninstall or Change a Program window, select AutoCAD Civil 3D, then click Uninstall/Change.

The AutoCAD Civil 3D Installation wizard re-opens in Maintenance mode.

3. Click Uninstall.
4. On the Uninstall <*AutoCAD Civil 3D*> page, click Next to remove AutoCAD Civil 3D from the system.
5. When informed that the product has been successfully uninstalled, click Finish.

NOTE Even though AutoCAD Civil 3D is removed from your system, the software license remains. If you reinstall AutoCAD Civil 3D at some future time, you will not have to register and re-activate the program.

Installing Design Review

Autodesk Design Review 2010 is installed by default when you install AutoCAD Civil 3D. Install Design Review if you need to view DWF or DWFx files.

NOTE If you use Windows Vista, you can view and print DWFx files without installing Design Review.

Autodesk Design Review is a free program used for creating and reviewing DWF or DWFx files. An open, published, and secure file format developed by Autodesk, DWF enables you to combine and publish rich 2D- and 3D-design data, and share it with others.

The following commands create DWF or DWFx files.

- PUBLISH
- PLOT
- 3DDWF
- PUBLISH TO WEB
- EXPORT
- AUTOPUBLISH
- SSM

Customizing AutoCAD Civil 3D

2

If you have a previous version of AutoCAD Civil 3D installed on your system, you can install a newer version of AutoCAD Civil 3D and keep other versions of the program on the same system. This is called a *side-by-side* installation. If you've purchased an *upgrade* version of AutoCAD Civil 3D, you are required to uninstall the previous version within 120 days of installing your newer product. See your license agreement for more information.

Locating Customized Files

Beginning with AutoCAD Civil 3D 2004, the location of some of the customized files has changed to allow for:

- Limited user rights on a workstation. You can run AutoCAD Civil 3D as a limited user. This means that you no longer need power user or Administrator permissions to run AutoCAD Civil 3D once it is installed.
- Roaming profiles. Roaming profiles allow you to log on to any computer within a network and retain your user settings. Some files, such as your personal settings and documents, follow you from computer to computer, while other files, such as templates (including Publish to Web templates), reside only on your system.
  If roaming profiles are allowed on your network, your "roamable" files are located in the *\Application Data\Autodesk\<Product Version>* folder, and your "nonroamable" files are located in the *\Local Settings\Application Data\Autodesk\<Product Version>* folder.

NOTE In some operating systems, the folders that are located under your profile are hidden by default. To display these files, you may need to change your display settings. On the Start menu, click Control Panel ➤ Folder Options. In the Folder Options dialog box, on the View tab, click Show Hidden Files and Folders.

Locate Data Link Files

Beginning with AutoCAD Civil 3D 2004, the default location of your data link files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

To locate your data link files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Data Sources Location.
3. Under Data Sources Location, click the path name to view the location of your data link files.

NOTE The changes you make do not take effect until you restart the program.

Locate Plot Style Files

Beginning with AutoCAD Civil 3D 2004, the default location of your plot style files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

To locate your plot style files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Printer Support File Path.
3. Expand Plot Style Table Search Path file.
4. Under Plot Style Table Search Path, click the path name to view the location of your plot style files.

NOTE You can also locate your plot style files by entering **stylesmanager** at the AutoCAD Civil 3D command line.

Locate Plotter Files

Beginning with AutoCAD Civil 3D 2004, the default location of your plotter files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

To locate your plotter files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Printer Support File Path.
3. Expand Printer Configuration Search Path.
4. Under Printer Configuration Search Path, click the path name to view the location of your plotter files.

NOTE You can also locate your plotter files by entering **plottermanager** on the AutoCAD Civil 3D command line.

Locate the PMP File

Beginning with AutoCAD Civil 3D 2004, the default location of your PMP file has changed. For information about the default location of this file, see Locating Customized Files on page 19.

To locate your PMP file

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Printer Support File Path.
3. Under Printer Description File Search Path, click the path name to view the location of your PMP file.

Locate Support Files

Beginning with AutoCAD Civil 3D 2004, the default location for some of your support files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

Support files include the following:

- Configuration file (*acad2010.cfg)*

- Customization file (*acad.cui*)
- Custom icon files
- Help and miscellaneous files
- Font mapping file (*acad.fmp*)
- Alternate font file (*simplex.shx*)
- Support path files (*acad.dcl, acad.lin, acad.mnl, acad.pat, acad.pgp, acad.psf, acad.unt, acadiso.lin, acadiso.pat, ase.dcl, base.dcl, dbcon.cui, doshelp.dcl, and gdt.shx*)

To find the default location of the configuration file

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Help and Miscellaneous File Names.
3. Expand Configuration File.
4. Under Configuration File, click the path name to view the location of your configuration file.

To find the default location of the customization files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Customization Files.
3. Expand Main Customization File.
4. Under Main Customization File, click the path name to view the location of your main customization file.
5. Expand Enterprise Customization File.
6. Under Enterprise Customization File, click the path name to view the location of your enterprise customization files.

NOTE By default, the path to an enterprise customization file is empty until you define the file. For more information about defining a customization file, see "Customize the User Interface" in the *Customization Guide*.

To find the default location of the custom icon files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Customization Files.
3. Under Custom Icon Location, click the path name to view the location for the custom button image files used with your customization files.

To find the default location of the Help and miscellaneous files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Help and Miscellaneous File Names.
3. Expand the file you want to locate, and then click the path name to view the location of the files.

To find the default location of the font mapping file

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Text Editor, Dictionary, and Font File Names.
3. Expand Font Mapping File.
4. Under Font Mapping File, click the path name to view the location of your font mapping file.

To find the default location of the alternate font file

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Text Editor, Dictionary, and Font File Names.
3. Expand Alternate Font File.
4. Under Alternate Font File, click the path name to view the location of your alternate font file.

To find the default location of the support path files

1. In AutoCAD Civil 3D, at the command line, enter *options*.
2. In the Options dialog box, Files tab, expand Support File Search Path.

3 Under Support File Search Path, click a path name to view the location of your support files.

Locate Drawing Template Files

Beginning with AutoCAD Civil 3D 2004, the default location of your drawing template files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

To locate your drawing template files

1 In AutoCAD Civil 3D, at the command line, enter *options*.

2 In the Options dialog box, Files tab, expand Template Settings.

3 Under Template Settings, expand Drawing Template File Location.

4 Under Drawing Template File Location, click the path name to view the location of your drawing template files.

Locate Texture Files

Beginning with AutoCAD Civil 3D 2004, the default location of your texture files has changed. For information about the default location of these files, see Locating Customized Files on page 19.

To locate your texture files

1 In AutoCAD Civil 3D, at the command line, enter *options*.

2 In the Options dialog box, Files tab, expand Texture Maps Search Path.

3 Under Texture Maps Search Path, click the path name to view the location of your texture files.

Customizing Issues

This section outlines common issues and their solutions with regards to and customizing AutoCAD Civil 3D.

What are the benefits of identifying my industry?

By identifying your industry, Initial Setup can determine which default drawing template might be the one that best fits your needs. Along with defining the default drawing template, the industry you choose is also used to:

- **Identify partner products.** Partner products are developed by third-party developers; they extend the base functionality of your product and add specific functionality that is related to your industry. For more information about partner products, see *http://partnerproducts.autodesk.com/*.
- **Control Autodesk Seek results.** Autodesk Seek is a content search site that contains symbols, specifications, and other design-related content that might be placed into a drawing or bid package. The specified industry filters the information that is found based on the content that is best related to you. For more information about Autodesk Seek, see *http://seek.autodesk.com/*.

How is this information being used?

The information gathered from Initial Setup is used to configure several different features and to help guide the future direction of the program. The following features are customized with Initial Setup:

- The default drawing template (DWT) file used to create new drawings.
- The industry that best relates to you to use for filtering search results on Autodesk Seek.
- Which task-based tools to display in a workspace.

No information is shared with Autodesk about the choices you make unless you participate in the Customer Involvement Program (CIP). For information about the Customer Involvement Program, see Customer Involvement Program (CIP) in the *Network Administrator's Guide*.

What happens if I skip or cancel Initial Setup?

If you skip or cancel Initial Setup, AutoCAD Civil 3D is not changed from its current state. You can return to Initial Setup when AutoCAD Civil 3D is restarted by checking Remind Me the Next Time AutoCAD Civil 3D Starts on the Skip Initial Setup page or through the Options dialog box.

To change settings from Initial Setup through the Options dialog box

1. Click the Application menu button ➤ Options.
2. In the Options dialog box, User Preferences tab, click Initial Setup.
3. In Initial Setup, make the desired changes and click Finish.
4. In the Options dialog box, click OK.

What are the benefits of selecting task-based tools?

Workspaces control which task-based tools are displayed in the application window and when they are displayed. You can create different workspaces based on the types of drawings you work on. For more information about customizing the user interface and workspaces, see Customize Workspaces in the *AutoCAD Customization Guide*.

What is a workspace?

Workspaces are sets of menus, toolbars, palettes, and ribbon control panels that are grouped and organized so that you can work in a custom, task-oriented drawing environment. When you use a workspace, only the menus, toolbars, and palettes that are relevant to a task are displayed. For more information about customizing workspaces, see Workspaces in the *AutoCAD Civil 3D 2010 User's Guide*.

How do I make changes to a workspace at a later time?

Workspaces are used to control many of the tools displayed in the Application window of AutoCAD Civil 3D. You can modify the current workspace in a limited way from the Application window or you have full control over all aspects of a workspace with the Customize User Interface (CUI) Editor. For more information about customizing workspaces, see Customize Workspaces in the *AutoCAD Customization Guide*.

What is a drawing template file?

A drawing template (DWT) file is used to provide consistency for each new drawing (DWG) file that is created. DWT files can contain named objects,

drawing based settings, and geometric objects. Stored named objects include layers, and text and dimension styles among others. Along with named objects, a DWT file can hold values for drawing based system variables, and any geometric object that might be common across multiple drawings such as a title block. For information about using a DWT file, see Use a Template File to Start a Drawing in the *AutoCAD User's Guide*.

How do I modify drawing templates at a later time?

Drawing template (DWT) files are no different than a drawing (DWG) file, with the exception of its file extension. Once a DWT file is opened, you can modify named objects such as layers, and text and dimension styles just as you would in a drawing. You open a DWT file with the OPEN command.

To open a drawing template (DWT) file

1. Click the Application menu button ➤ Open.
2. In the Select File dialog box, select Drawing Template (*.*dwt*) from the Files of Type drop-down list.
3. Browse to and select the drawing template (DWT) file you want to modify.
4. Click Open.
5. Make the desired changes to the DWT file.
6. Click the Application menu button ➤ Save.

What are the benefits of customizing AutoCAD Civil 3D?

Customizing AutoCAD Civil 3D provides many benefits that can increase your productivity and make your drawings have a consistent appearance. Customization can be as simple as creating a block that can be used in many drawings over and over again, such as a title block, to setting up a default template with Initial Setup, or customizing the user interface with the Customize User Interface (CUI) Editor. For information about customizing the user interface, see Work with the Customize User Interface (CUI) Editor in the *AutoCAD Customization Guide*.

How do I return to this later?

You can return to Initial Setup in two ways. You can check the Remind Me the Next Time AutoCAD Civil 3D 2010 Starts check box on the Skip Initial Setup page. Initial Setup displays the next time you start AutoCAD Civil 3D. You can also change settings for Initial Setup through the Options dialog box.

Installation Troubleshooting

3

This section provides solutions to installation issues and answers to commonly asked questions that may arise while installing your product(s). Additional troubleshooting information and support is also available at *http://autodesk.com/support*.

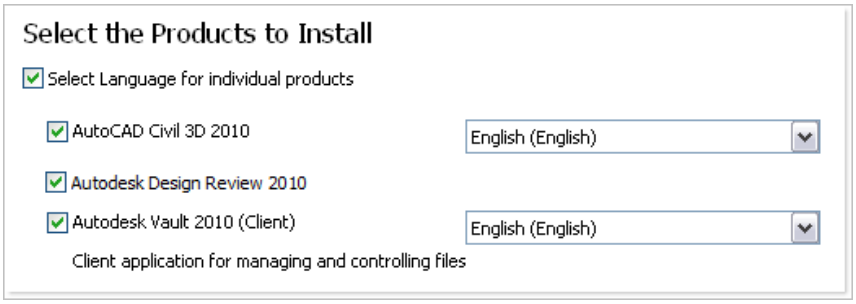
General Installation Issues

The following outlines common issues and their solutions that may arise while you are performing a general installation of your product(s).

What is Autodesk Vault

Autodesk Vault is a project management solution that can be used with AutoCAD Civil 3D in a collaborative environment involving multiple design teams. Based on the client-server networking model, the main Vault database resides on a designated server and can be accessed from client computers of project participants. Vault allows you to share and manage not only DWG files, but all of your engineering and related data, such as hydraulic designs, analyses, and data generated from Microsoft Office applications or other design software.

You can install Autodesk Vault during the AutoCAD Civil 3D installation. Select the corresponding option on the Select the Products to Install page of the Installation wizard.


Select the Products to Install
Select Language for individual products
AutoCAD Civil 3D 2010
English (English)
Autodesk Design Review 2010
Autodesk Vault 2010 (Client)
English (English)
Client application for managing and controlling files

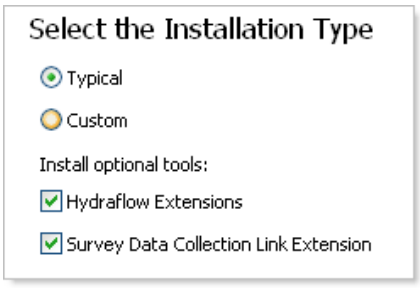
For more information on Autodesk Vault, click the Documentation link from the AutoCAD Civil 3D 2010 Installation wizard or see the AutoCAD Civil 3D 2010 online help.

What are the Hydraflow Extensions?

The Hydraflow extensions are comprised of the following applications:

- **Hydraflow Storm Sewers Extension**
  Hydraflow Storm Sewers Extension for AutoCAD Civil 3D is a full-featured application for urban hydrosystems engineering. It is designed primarily for hydrologic and hydraulic analysis of simple and complex storm sewer networks. It can be used as a basic tool for determining the hydraulic grade line in an existing system or planning and designing new systems.
- **Hydraflow Hydrographs Extension**
  Hydraflow Hydrographs Extension for AutoCAD Civil 3D is an application for urban hydrosystems engineering. It is designed primarily for hydrologic analysis of both simple and complex drainage basins. It can be used as a basic tool for determining runoff from various historical and synthetic storms, and in planning or modeling flood control measures, such as detention ponds.
- **Hydraflow Express Extension**
  Hydraflow Express Extension for AutoCAD Civil 3D is an application for performing everyday hydraulics and hydrology tasks, such as designing culverts, open channels, inlets, and weirs. Hydraflow Express Extension enables you to quickly generate informative graphs, rating curves, and on-screen reports as well as formal printed reports.

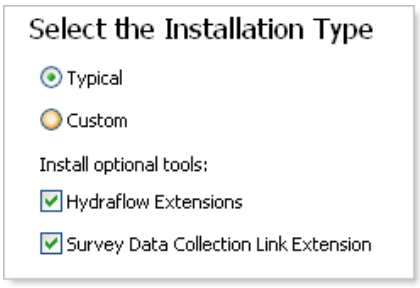
To install the Hydraflow extensions, ensure that the corresponding option is selected. It is selected by default in Typical installation.



What is the Survey Data Collection Link Extension?

Survey Data Collection Link extension for AutoCAD Civil 3D is an application that allows you to transfer data from data collectors and convert raw data files and coordinate data files into field book (.fbk) format. You can then import the .fbk file using the Survey functionality in AutoCAD Civil 3D.

To install Survey Data Collection Link extension, ensure that the corresponding option is selected. It is selected by default in Typical installation.



How can I check my graphics card driver to see if it needs to be updated?

It is recommended that you verify and update your graphics card driver to optimize your program. Use the following procedure to identify your current graphics card driver.

To identify your graphics card driver

1. Start AutoCAD Civil 3D.
2. At the command line, enter **3dconfig**.

3 In the Adaptive Degradation and Performance Tuning dialog box, click View Tune Log.

4 Review the 3D Device section for information about your system's graphics card driver and driver version.

TIP Many newer graphic cards offer tabbed pages where you can learn more precise information about your specific graphic card. If specific tab pages are present, refer to them instead of the Adapter tab.

What is a text editor used for?

The text editor you designate during installation is used for editing text files such as PGP and CUS dictionary files while you are running your product.

When performing a Typical installation, what gets installed?

A Typical installation includes the following features:

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language dictionaries.
Drawing Encryption	Allows you to use the Security Options dialog box to protect a drawing with a password.
Express Tools	Contains AutoCAD Civil 3D support tools and utilities (not supported by Autodesk).
Fonts	Contains AutoCAD Civil 3D fonts and TrueType fonts.
Autodesk Impression Toolbar	The Impression toolbar allows you to quickly export any view to Autodesk Impression for advanced line effects.

Autodesk Seek	Autodesk Seek. **NOTE** Seek will only be installed in the English version of AutoCAD Civil 3D.
Material Library	Contains over 300 professionally buit materials to apply to your model.
New Features Workshop	Contains animated demos, exercises, and sample files to help users learn the new features.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. **NOTE** The utility will not be installed on unlocked versions of AutoCAD Civil 3D.
Initial Setup	Allows users to set up their initial configuration of AutoCAD Civil 3D (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Hydraflow Extensions	Installs the Hydraflow Extensions that comprise hydraulics and hydrology applications, including Hydraflow Storm Sewers, Hydraflow Hydrographs, and Hydraflow Express.
Survey Data Collection Link Extension	Installs the Survey Data Collection Link Extension that allows to transfer data from survey data collectors and convert raw data files and coordinate data files into field book (.fbk) format.

What are Content Packs?

Content packs are collections of locale- and discipline-specific files to install with AutoCAD Civil 3D. The available content packs allow you to work on US or international projects and always reference the appropriate standards for each geographical region.

Files contained in content packs can include the following data:

- Layer standard files
- Standard blocks of various types
- Border sheets for plotting
- Civil drawing templates
- Symbol drawings
- Superelevation standards
- Reporting style sheets
- Pipe catalogs
- Corridor catalogs
- Tool Palettes for subassemblies, material styles, and landscape symbols
- API Samples
- Reports

You can select content packs on the Configure Content Packs page of the installation wizard. You can select the AutoCAD-only profile, AutoCAD Civil 3D Metric or Imperial profiles, or the Benelux profile. By default, there is only one shortcut icon created on the desktop. You can specify whether to display additional desktop shortcuts for each of the installed profiles. You can also specify a new location for the Content Browser Library file.

Each content pack is installed in a separate program group, which allows you to create a content pack shortcut that was not created using the installation wizard. You must install at least one content pack.

The following table lists the content packs available, shortcut names, and profile names for AutoCAD Civil 3D 2010.

Content Pack Name	Shortcut Name	Profile Name
AutoCAD Civil 3D 2010 as AutoCAD	AutoCAD Civil 3D as AutoCAD 2010	AutoCAD

Content Pack Name	Shortcut Name	Profile Name
Imperial	AutoCAD Civil 3D 2010 Imperial	C3D_Imperial
Metric	AutoCAD Civil 3D 2010 Metric	C3D_Metric
ANZ Content	n/a	C3D_ANZ
Benelux Content	n/a	C3D_BENELUX
Denmark Content	n/a	C3D_DENMARK
France Content	n/a	C3D_FRANCE
DACH Content	n/a	C3D_DACH
Norway Content	n/a	C3D_NORWAY
Romania Content	n/a	C3D_ROMANIA
Sweden Content	n/a	C3D_SWEDEN
UKIE Content	n/a	C3D_UKIE
US California Content	AutoCAD Civil 3D 2010 USCA	C3D_USCA

You can add or remove content packs using the AutoCAD Civil 3D 2010 Add or Remove Features utility.

To add or remove content packs

1. On the Windows Control Panel, click Add or Remove Programs.
2. Select AutoCAD Civil 3D from the Currently Installed Programs list, and click Change/Remove.
3. In the AutoCAD Civil 3D installation wizard, click Add or Remove Features, and then click Next.
4. On the Configure Content Packs page, select the content packs to add or remove, and then click Next.
5. Click Next to update your program installation.

What are Configurable Folders?

On the Configurable Folders page, you can specify custom locations for folders with specific content. Content folders are devided into two groups: Support and Survey.

The Support content folder group includes the following folders:

Folder name	Contains
Working Projects	Local copies of files for all the projects stored in the Vault database.
Data	Items, such as preview drawings, quantities reports style sheets, and layer and corridor standards.
Content Roots	A predetermined folder structure that can be used for your new projects. When a new project is created, you can specify to use a project template, and the new project will inherit a folder structure defined in the Content Roots folder.
Corridor Model	Corridor model and pipe network support files.

The Survey content folder group includes the following folders:

Folder name	Contains
Survey Equipment Database	Survey Equipment database files. For example, each database can contain a library of equipment by manufacturer.
Survey Figure Database	Survey Figure Prefix database files. Each figure prefix database contains line feature naming conventions pertaining to company or third-party standards.
Survey Database Settings	SDB_SET files containing settings for the creation of new survey databases. Each file can be a survey database settings template.
Survey Extended Properties Definitions	SDX_DEF (extended properties schema) files, as well as LandXML and user-defined extended property schema files.

Folder name	Contains
Survey Linework Code Sets	User-defined linework coding definitions (or conventions), each set pertaining either to company or third-party standards.

Specify one of the following configurable folder modes for your content

- **Default**
  Default content files are installed in the default location in the Document and Settings folder in Windows XP and Program Data folder in Windows Vista. When you uninstall the program, default content files are also uninstalled.
- **Local**
  Local content files are installed in non-standard locations. You can install a content group to a location other than the default folder. When you uninstall the program, local content files are also uninstalled.
- **Shared**
  Shared content files are installed in a shared location, enabling multiple users to access the same copy of AutoCAD Civil 3D content. If you specify the same location for a subsequent installation, you will be prompted to overwrite the existing shared content files. When you uninstall the program, shared content files are not uninstalled.

Why should I install the Material Library?

The Material Library contains over 300 professionally made materials that you can immediately apply to objects in your model. They can also act as a basis for custom materials that you want to create.

For more information regarding materials, see Materials and Textures in the *AutoCAD User's Guide*.

Where are my product manuals?

Documentation for AutoCAD Civil 3D is in two formats: PDF files and CHM files.

- PDF files are made available during installation; click the Documentation link in the installer.

- CHM files are available after the product is installed; they are accessed in the Help system in the product.

The PDF files are also available from within your installed product's Help system.

Files are also installed to the *\<AutoCAD Civil 3D>\Help* folder.

Licensing Issues

This section outlines common issues and their solutions with regards to software licenses and licensing your product(s).

What is the difference between a stand-alone license and a network license?

Stand-alone licensed products are registered and activated to an individual workstation. While the software can be installed on multiple systems in your facility, the license only allows one system to be operational. If you need to run more systems, you need to purchase more stand-alone licensed products, or consider converting to network licenses.

Network licensed products rely on the Network License Manager to keep track of software licenses. The software can be installed and run on multiple systems, up to the maximum number of licenses you've purchased. The Network License Manager "checks out" licenses until they are all in use. No further systems can run the program until a license is "checked in." If you need to run more systems, you can purchase additional licenses for the Network License Manager to maintain.

Stand-alone licensed products are registered and activated to an individual workstation. While the software can be installed on multiple systems in your facility, the license only allows one system to be operational. If you need to run more systems, you need to purchase more stand-alone licensed products, or consider converting to *multi-seat stand-alone* licenses.

You cannot purchase a network licensed version of PRODNAME. However, a multi-seat stand-alone licensed version is available that does not rely upon servers to maintain licenses. Multi-seat stand-alone licensing means that each installation of your product uses a single serial number for registration and activation.

What is the benefit of using a network licensed version of the software?

Network licensed products are recommended for large drafting/design facilities, classrooms, and lab environments. The main advantage is that you can install products on more systems than the number of licenses you have purchased (for example, purchasing 25 licenses but installing on 40 workstations). At any one time, products will run on the maximum number of systems for which you have licenses. This means you get a true floating license. If software needs to be run on more systems, additional licenses can be purchased.

Registration and activation occurs only once and the licenses are maintained on your Network License Server.

What is Internet Explorer used for?

After installing your product, you can operate in *trial mode* for a given number of days. Whenever you launch the program, you are prompted to activate the software. When you choose to activate the software, Internet Explorer makes this process much faster. Once you entered your registration data and submit it to Autodesk, an activation code is returned and you are not prompted again during startup.

Uninstall and Maintenance Issues

This section outlines common issues and their solutions with regards to adding and removing features, reinstalling or repairing your installation, and uninstalling products.

When adding or removing features, how can I tell what features get installed by default?

To quickly see what gets installed during a typical, default installation, click the Restore Defaults button on the Add/Remove Features page.

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.

Dictionaries	Contains multi-language dictionaries.
Drawing Encryption	Allows you to use the Security Options dialog box to protect a drawing with a password.
Express Tools	Contains AutoCAD Civil 3D support tools and utilities (not supported by Autodesk).
Fonts	Contains AutoCAD Civil 3D fonts and TrueType fonts.
Autodesk Impression Toolbar	The Impression toolbar allows you to quickly export any view to Autodesk Impression for advanced line effects.
Autodesk Seek	Autodesk Seek. **NOTE** Seek will only be installed in the English version of AutoCAD Civil 3D.
Material Library	Contains over 300 professionally buit materials to apply to your model.
New Features Workshop	Contains animated demos, exercises, and sample files to help users learn the new features.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. **NOTE** The utility will not be installed on unlocked versions of AutoCAD Civil 3D.
Initial Setup	Allows users to set up their initial configuration of AutoCAD Civil 3D (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Hydraflow Extensions	Installs the Hydraflow Extensions that comprise hydraulics and hydrology applications, including Hydraflow Storm Sewers, Hydraflow Hydrographs, and Hydraflow Express.

Survey Data Collection Link Extension	Installs the Survey Data Collection Link Extension that allows to transfer data from survey data collectors and convert raw data files and coordinate data files into field book (.fbk) format.

Is it possible to change the installation folder when adding or removing features?

Once your product is installed, you cannot change the installation path from the Add/Remove Features page. Changing the path while adding features results in program corruption, so it is not an option.

When should I reinstall the product instead of a repair?

You should reinstall your product if you accidentally delete or alter files that are required by the program. Missing or altered files adversely affect the performance of your product and cause error messages when you try to execute a command or find a file.

If an attempt to repair an installation fails, reinstalling is the next best option.

See also:

- Reinstall or Repair PRODNAME on page 16

Do I need my original disc to reinstall my software?

When performing a reinstall of the product, you do not need to have the original discs on hand. Installation data is cached locally on your drive and that data is reused when reinstalling.

When I uninstall my software, what files are left on my system?

If you uninstall the product, some files remain on your system such as files you created or edited (drawings or custom menus).

Your license file also stays on your workstation when you uninstall your product. If you reinstall on the same workstation, the license information remains valid and you do not have to reactivate the product.

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